

Patent claims

1. Thread carrying apparatus at which a thread (2) lies in contact or passes along with friction in the operating state, with the thread carrying apparatus including excitation means (3) for producing oscillations which reduce the frictional force between the thread (2) and the thread carrying apparatus, characterized in that a resonator body (4) is provided at which the thread (2) lies in contact or passes along with friction in the operating state, with the resonator body (4) being designed in such a manner that the excitation means (3) produce resonant structural sound oscillations in the resonator body (4).
2. Thread carrying apparatus in accordance with claim 1, in which at least one excitation means (3) is designed as an electromagnetically excitable oscillating element (41).
3. Thread carrying apparatus in accordance with claim 1 or claim 2, in which at least one excitation means (3) is designed as a piezoelectric oscillating element (42).
4. Thread carrying apparatus in accordance with any one of the preceding claims, in which at least one excitation means (3) is designed as a magnetostrictive oscillating element (43).
5. Thread carrying apparatus in accordance with any one of the

preceding claims, in which at least one excitation means (3) is designed as a mechanically excited oscillating element (44).

6. Thread carrying apparatus in accordance with any one of the preceding claims, in which the electromagnetic energy for the excitation of at least one oscillating element (4) can be coupled in in wireless manner by means of a transmission device (T).
7. Thread carrying apparatus in accordance with any one of the preceding claims, in which the resonator body (4) is formed by the thread drum (51) of a drum store (5) of a textile machine, in particular of a weaving machine.
8. Thread carrying apparatus in accordance with any one of the preceding claims, in which the resonator body (4) is formed by a thread guiding element (61) of a weaving rotor (6) of a multiple phase weaving machine.
9. Thread carrying apparatus in accordance with any one of the preceding claims, in which the resonator body (4) is formed by a thread deflection apparatus (7), in particular by a thread deflection apparatus (7) of a textile machine.
10. Textile machine, in particular a weaving machine, including a thread carrying apparatus in accordance with any one of the preceding claims.